

FIG. 1

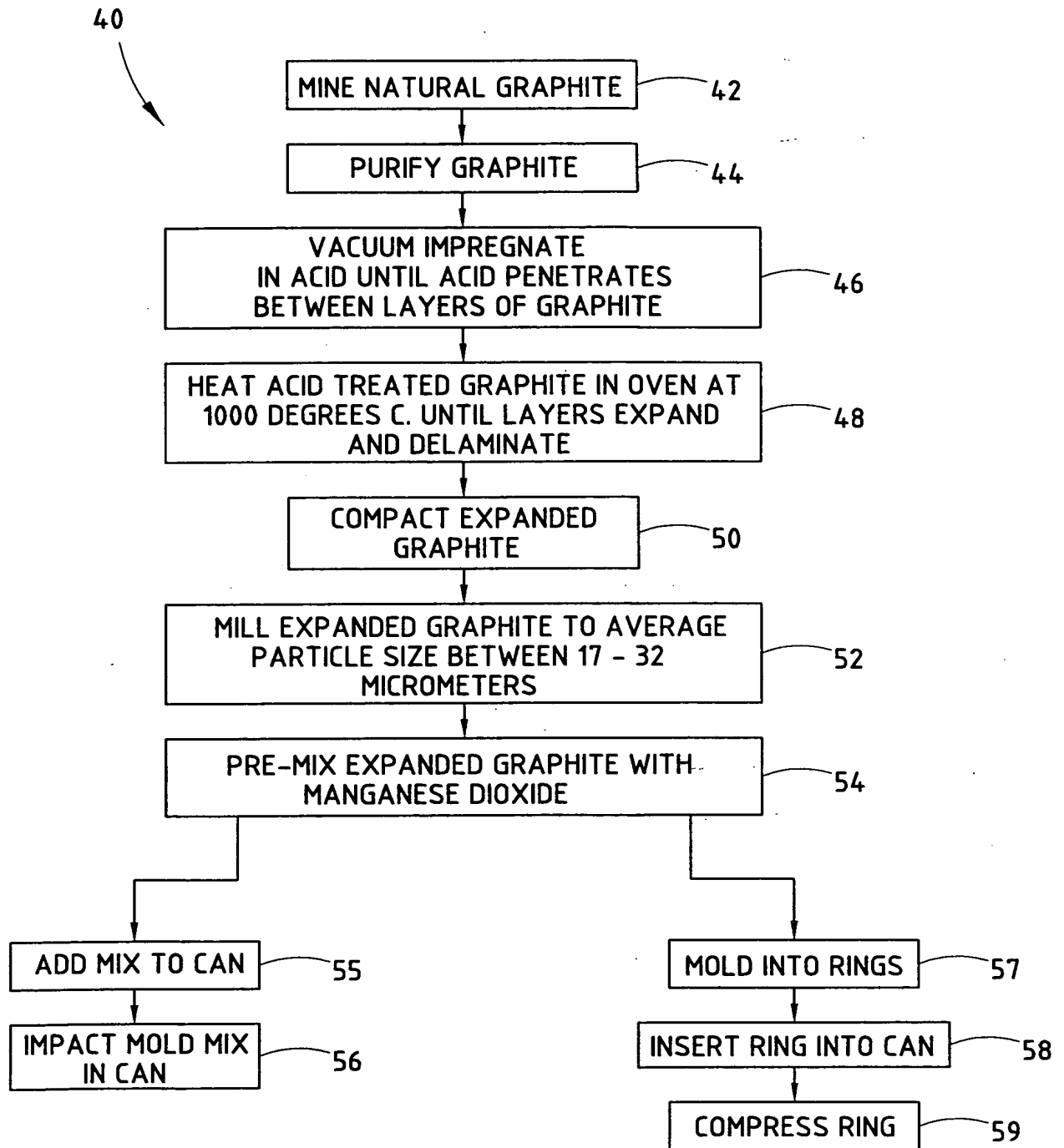


FIG. 2

862727-445ET260

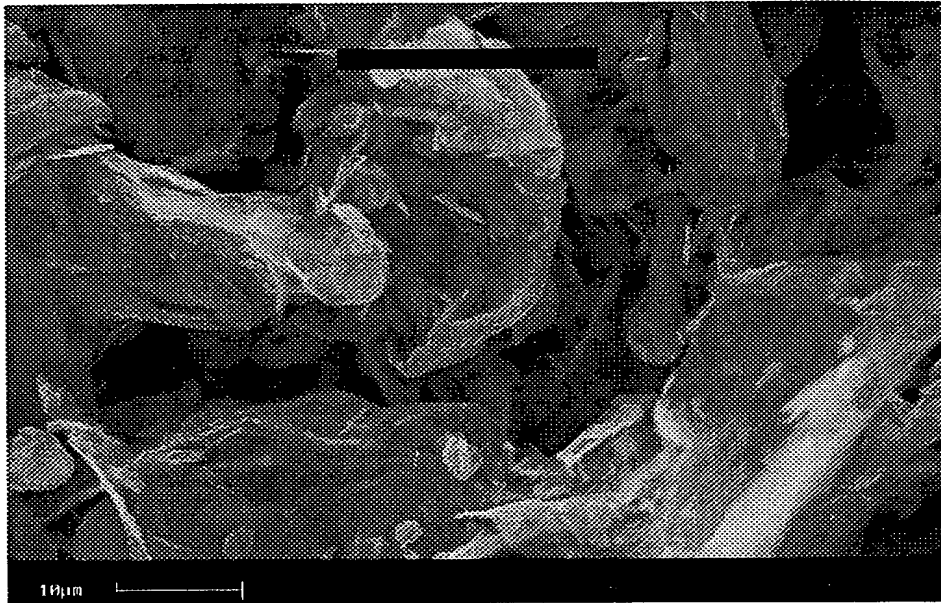


FIG. 3

PERFORMANCE ANALYSIS

Expanded Graphite	Service [#] to 0.9V	Microtrac Particle Size (µm)					BET Surface Area	Kerosene Abs.	Pellet Resist. @	%Water (110°C)	Scott Density	Real Density	Surface Area (calc.)	Bulk Volume	Tap Density
		d ₁₀	d ₅₀	d ₉₀	mv ♦	ma*									
S1	97.1 ✓	4.96	19.61	43.18	27.51	13.35	26.7	(2.74)	1.78	0.16	0.04	2.30	0.450	0.031	0.11
S2	90.6	4.26	16.51	48.27	29.88	12.20	18.1	2.06	1.19	0.12	0.06	2.28	0.492	0.043	0.14
S3	86.9	3.66	15.36	43.35	25.70	10.85	19.9	1.94	1.35	0.13	0.05	2.27	0.553	0.046	0.15
S4	66.0	3.13	9.23	15.50	10.31	7.73	9.6	1.36	3.44	0.03	0.07	2.26	0.776	0.069	0.22
S5	51.7	5.84	19.51	36.71	23.67	16.15	5.7	1.44	6.17	0.05	0.11	2.25	0.372	1.105	0.28
S6	65.2	3.37	10.42	16.36	11.59	8.93	8.2	1.37	4.16	0.05	0.07	2.27	0.672	0.068	
S7	77.0	20.69	81.60	160.21	110.02	45.80	21.3	4.39	1.61		0.06	2.25	0.139	0.034	0.10
S8	93.0	6.53	21.33	58.07	31.74	14.90	23.1	3.51	0.84		0.04	2.30	0.403	0.034	0.11
S9	90.0	4.72	20.42	16.62	44.25	13.60	21.5	(2.78)	1.08		0.05	2.27	0.441	0.042	0.12
S10	72.3	4.72	9.93	18.18	11.05	8.22	8.4	1.25	4.37	0.06	0.08	2.25	0.730		0.23
S11	71.9	9.74	19.89	41.93	24.11	16.86	4.5	1.35	7.99	0.10	0.11	2.25	0.356		0.28
S12	82.7	10.91	35.06	118.67	54.92	23.26	13.7	2.60	1.47	0.10	0.10	2.24	0.258	0.057	
S13	93.1	7.48	23.65	73.09	35.2	15.93	22.4	(2.77)	0.76	0.09	0.10	2.25	0.377	0.035	0.11
S14	77.0	8.99	29.64	82.39	40.8	19.17	18.4	3.52	1.33	0.08	0.05	2.28	0.313	0.039	0.12
S15	86.0	8.98	28.80	77.24	37.95	18.89	20.0	3.47	1.14	0.08	0.05	2.27	0.318	0.038	
S16	85.0	9.04	29.96	85.26	41.76	19.33	18.4	3.20	1.35	0.01	0.05	2.27	0.310	0.039	
S17	76.0	8.99	34.48	94.09	46.43	22.23	18.3	4.38	1.56	0.11	0.06	2.29	0.270		0.11

with 20:1 O:C ratio, 100 mA/g EMD

***ma=mean diameter of area**

@ with 20:1 O:C ratio, fully relaxed

FIG. 4

8622T-1456260

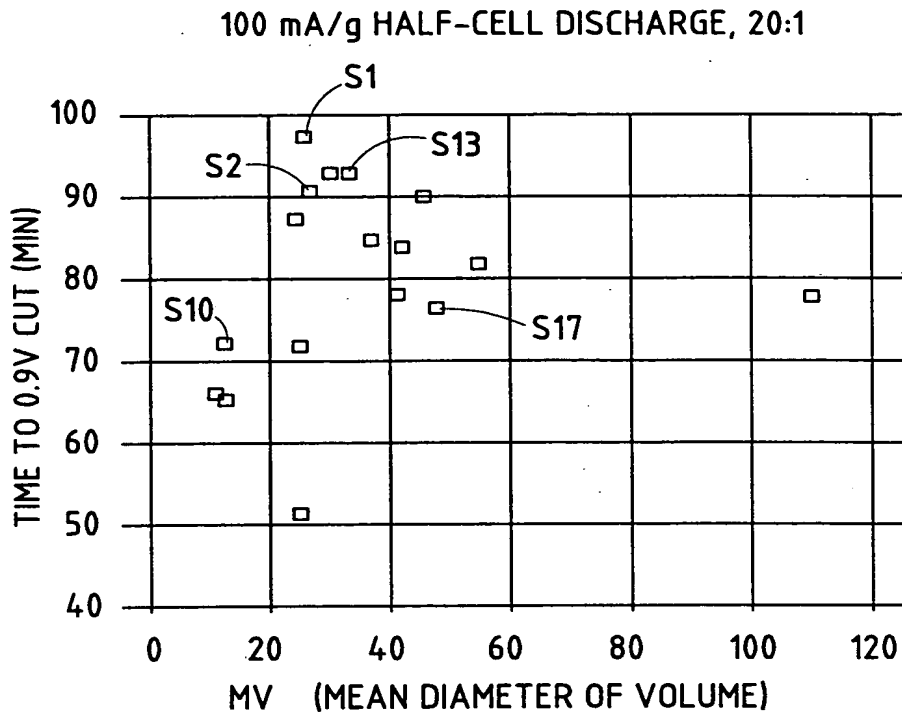


FIG. 5

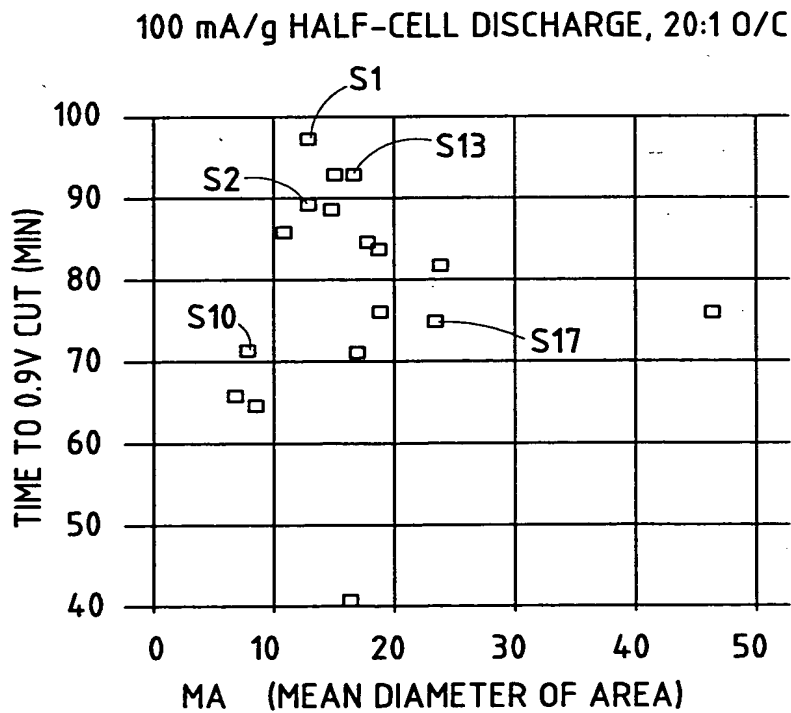


FIG. 6

862727-1152260

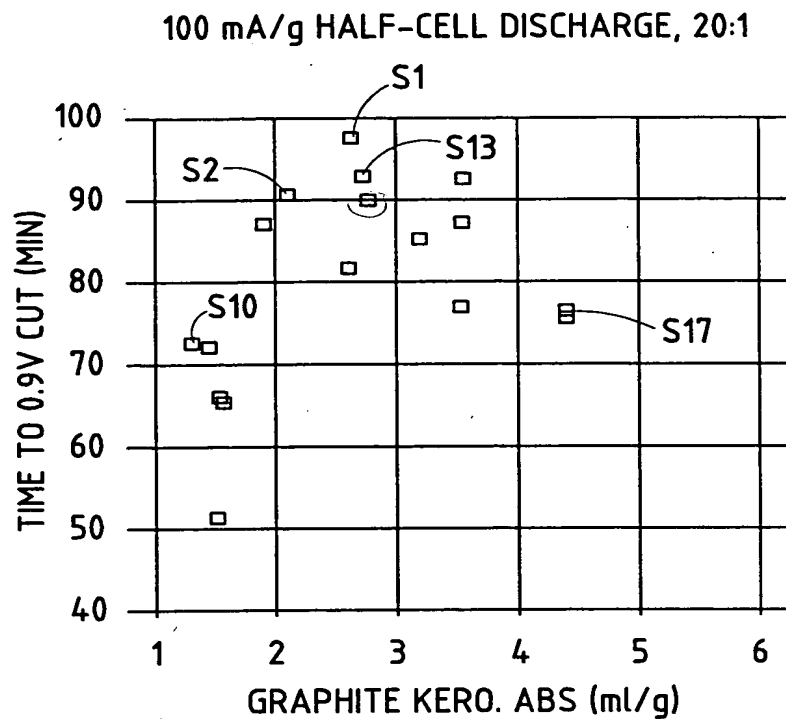


FIG. 7

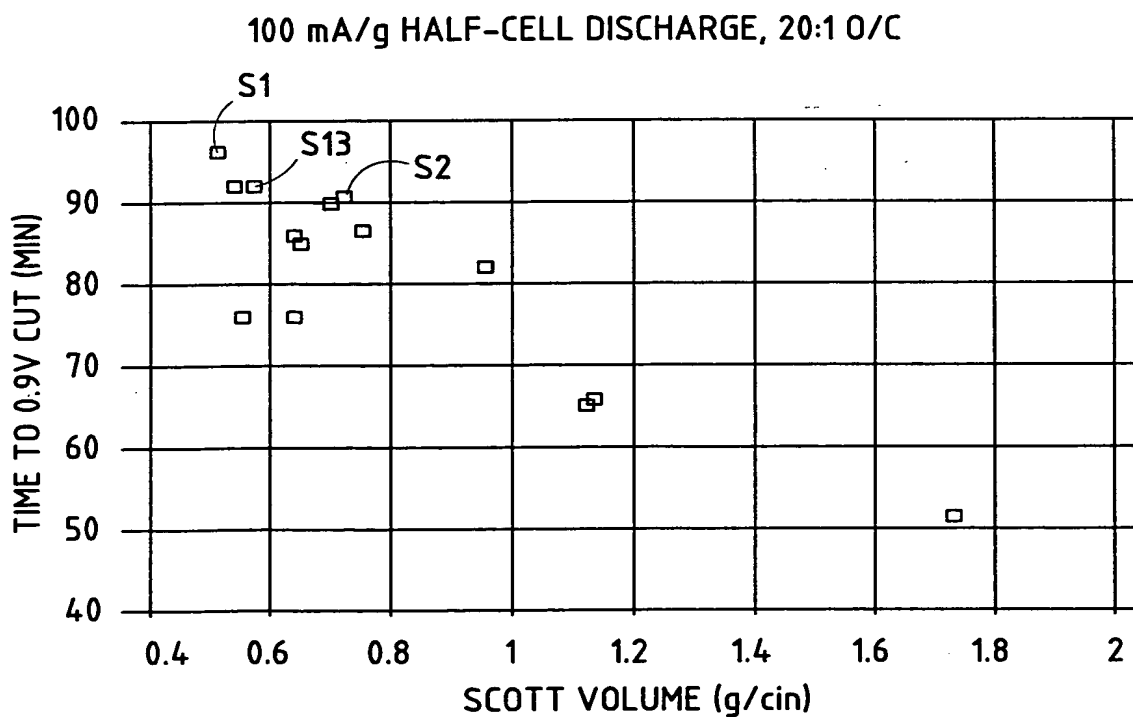


FIG. 8

362727-4557260

100 mA/g HALF-CELL DISCHARGE, 20:1

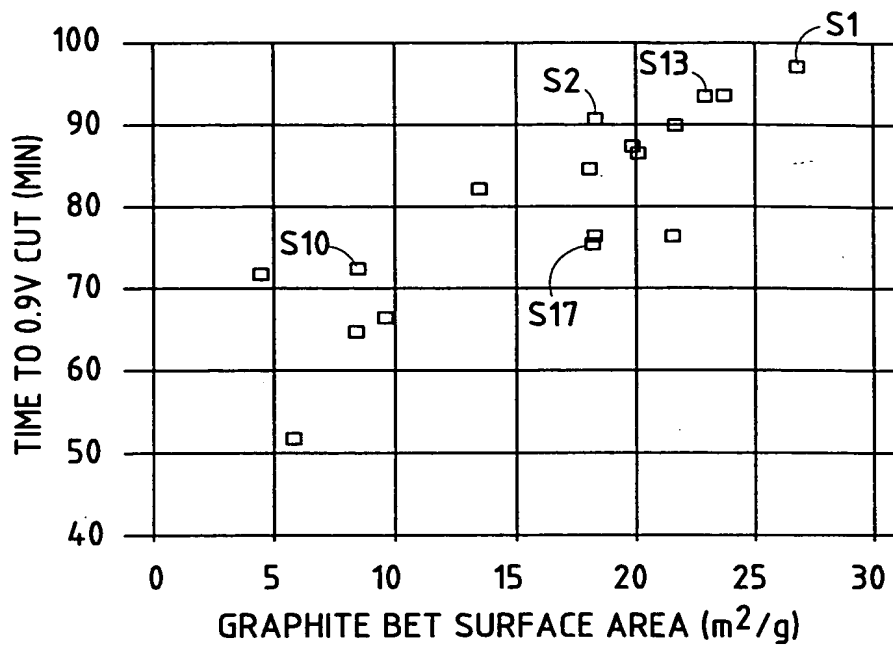


FIG. 9

100 mA/g HALF-CELL DISCHARGE, 20:1 FULLY RELAXED

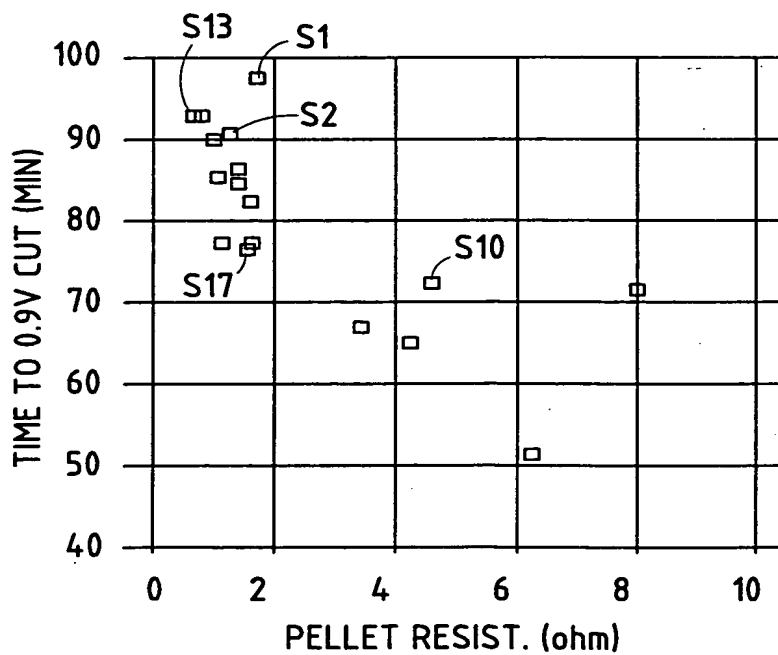


FIG. 10

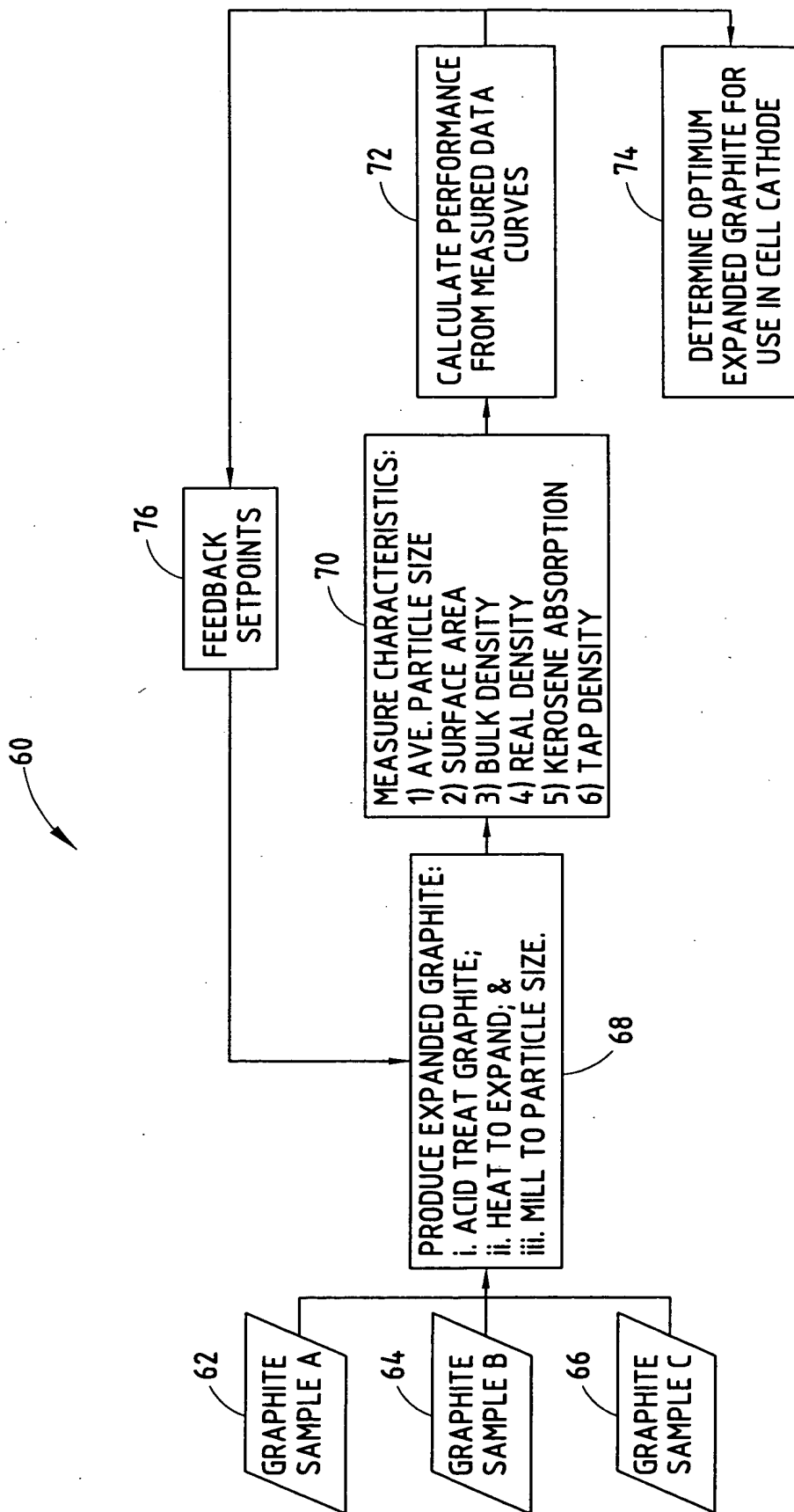


FIG. 11

854721-45E260

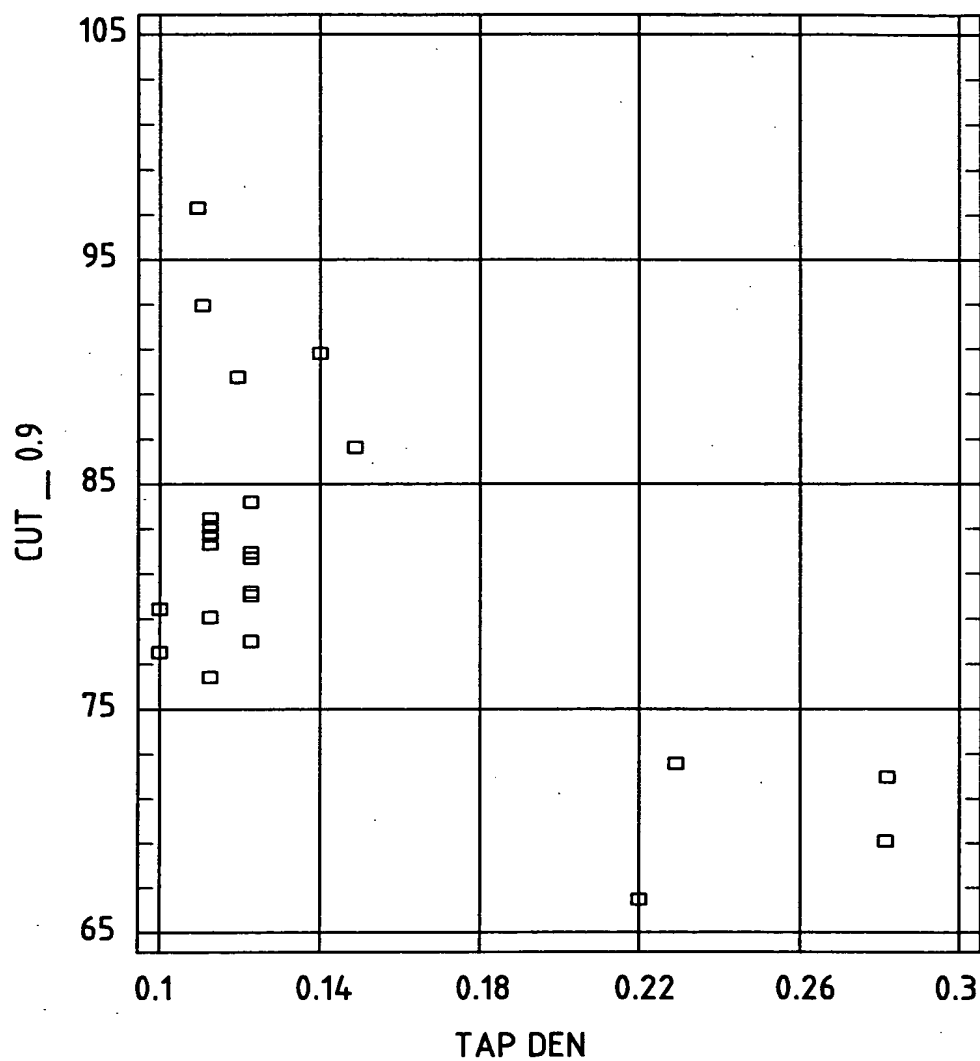


FIG. 12